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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/092,155	03/05/2002	Bruce E. Lavigne	100202520-1	9222

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HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P.O. Box 272400
Fort Collins, CO 80527-2400

EXAMINER

HOM, SHICK C

ART UNIT	PAPER NUMBER
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2616

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05/28/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/092,155	Applicant(s) LAVIGNE ET AL.	
	Examiner SHICK C. HOM	Art Unit 2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 February 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3, 5-8 and 11-18 is/are rejected.
- 7) ☒ Claim(s) 4, 9-10 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 2/7/08 have been fully considered but they are not persuasive. In pages 6-7 of the remarks, applicant argued that Soni does not teach or suggest a first memory storing the received packet and a second memory storing the modified bytes wherein the unmodified bytes of the packet stored in the first memory and modified bytes in the second memory are multiplexed is not persuasive because memory 72 in Fig. 5a clearly corresponds to the first memory storing the received packet or frame; delay 68 and multiplexer 70 in Fig. 5b correspond to the second memory storing the modified bytes and the multiplexer multiplexing the packet stored in the first memory 72 and modified bytes in the second memory, i.e. delay 68, respectively. Further, col. 8 lines 9-21 recite that depending upon memory 69 being enabled, or not enabled, multiplexer 70 is switched between its respective inputs according to the logical decisions made by comparators 66, so as to feed to the output port circuit 73 the original frame (from 68), a modified frame (with data segment taken from 71) or a reconstructed frame (read wholly or at least as to its data segment from 72) clearly anticipate unmodified bytes of the

packet stored in the first memory and modified bytes in the second memory being multiplexed as claimed.

In page 7 of the remarks, applicant argued that Soni does not teach or suggest a processor for computing modified bytes corresponding to pre-determined fields of the packet is not persuasive because no processor is recited in claims 1, 12, and 15; further the abstract which recite the security unit for modifying the frame clearly anticipate the processor for computing modified bytes of the packet.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-3, 5-8, and 11-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Soni (6,006,330).

Regarding claims 1, 5, 12, and 15-16:

Soni discloses a method and apparatus for routing a packet, comprising: means for buffering a received packet; means for calculating and storing a different value for one field of said received packet; and multiplexing means for selecting either an original value of said packet for output or said different value for output (col. 8 lines 9-21 and Fig. 5b shows multiplexer 70 being switched between the original frame from delay 68 and the modified frame with data segment taken from 71 to feed the port circuit 73 clearly anticipate the multiplexing means for selecting either an original value of said packet for output or said different value for output as in claims 1, 5, 12, 15).

Regarding claims 2-3, 11, 14, and 17:

Soni discloses pre-computing said modified bytes and storing pre-computed modified bytes in said second memory and adaptively modifying selected bytes of said packet in accordance with a pre-determined format of said packet (col. 2 lines 21-34 recite the substitute data in the modified frame being a string of pre-computed bits or a sequence of random or meaningful data read from memory).

Regarding claims 6-8, 13:

Soni discloses a controller coupled to said multiplexer, wherein said controller specifies whether bytes from said first memory or bytes from said second memory are to be selected for

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output as in claims 6, 13; wherein said controller adaptively controls said multiplexer according to a pre-determined format corresponding to said packet as in claim 7; and wherein said multiplexer selects bytes corresponding to those fields of said packet which need to be modified from said second memory and said multiplexer selects bytes corresponding to those fields of said packet which do not need to be modified from said first memory as in claim 8 (Fig. 5b, the comparators coupled to the multiplexer 70 for selecting the output clearly reads on the controller coupled to the multiplexer as recited in claims 6-8, 13).

Regarding claim 18:

Soni discloses means for generating modified packets without overwriting packet data (col. 4 lines 10-17 recite the frames being forwarded without being modified and Fig. 5b shows the modified frame in storage 71 and the original frame in storage 68 clearly read on generating modified packets without overwriting the packet data as claimed).

Allowable Subject Matter

4. Claims 4 and 9-10 would be allowable if rewritten to include all of the limitations of the base claim and any intervening claims.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to SHICK C. HOM whose telephone number is (571)272-3173. The examiner can normally be reached on Mon-Thurs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pham Chi can be reached on 571-272-3179. The fax phone number for the organization

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where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SH

/Chi H Pham/
Supervisory Patent Examiner, Art Unit 2616
5/23/08